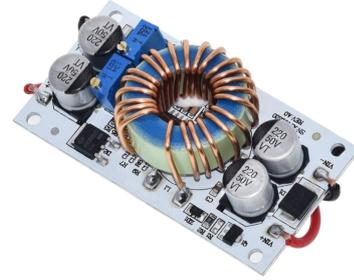


# Voltage converter 8.5-48V to 10-50V DC, max. 8A, 250W

Reference: AM4957  
EAN13: -  
HS code: 85044090



## Product attributes:

## Product features:

Input voltage: 8.5-48 V DC  
Output voltage: 10-50 V DC  
Output power: 250 W  
Waterproof grade: IP20  
Max. current: 4 A  
Inverter type: Boost (step-up)

## Product description:

Non-isolated DC/DC boost (step-up) converter for increasing and stabilizing DC voltage in applications with variable input. The output voltage is continuously adjustable using a trimmer, the module is designed for integration into devices and power supply from DC sources (e.g. batteries, power lines, industrial DC distribution).

## Technical specifications

- Inverter type: boost (step-up), non-isolated
- Input voltage: DC 8.5-48V
- Output voltage: DC 10-50 V, continuously adjustable
- Max. output power: 250 W
- Max. current: up to 8 A (depending on input/output voltage and cooling)
- Quiescent current: approx. 10 mA (specified for 12 V; depends on output setting)
- Switching frequency: 150 kHz
- Efficiency: up to 96%
- Operating temperature: -40 to +85 °C
- Protection: IP20
- Protections: overcurrent protection, input reverse polarity protection, output short circuit protection, thermal protection (100 °C thermal fuse)
- Connection: input and output terminals
- Mounting: 4x screw mounting holes (3 mm)
- Dimensions: 70 × 36 × 13 mm
- Weight: 65g

## Functions and features

- Continuous adjustment of output voltage using a trimmer
- Suitable for increasing voltage while maintaining DC power supply without galvanic isolation
- Integrated protections for common fault conditions (overcurrent, short circuit, reverse polarity)
- For higher currents, it is necessary to ensure adequate heat dissipation (cooling)

## Ideal for

- Powering devices requiring higher DC voltage than the source provides (e.g. 12 V to 24 V / 36 V / 48 V)
- Built-in power supplies in industrial electronics, automation and laboratory assemblies
- Power supply from battery systems and DC distribution within the permitted range

## Package contents

- DC/DC converter (boost) - 1 pc.

## Why choose this product?

- Wide input voltage range and continuously adjustable output voltage
  - High switching frequency and efficiency suitable for compact installation
  - Integrated protection functions for more stable operation in real-world applications
  - Mounting holes and clamps for convenient installation into equipment
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## Installation and operating instructions

- Before connecting, check the polarity of the input and output and set the desired output voltage without load.
- For higher loads, ensure sufficient cooling; if the load exceeds approximately 8 A, heat dissipation must be strengthened according to the specification.
- Size the supply wires and fuses according to the expected current; minimize voltage drops on the line.
- The module is non-isolated - the ground (GND) of the input and output is common.

## Safety notice

- The output voltage can reach up to 50 V DC; observe safe working practices during installation and measurement and avoid short-circuiting the output.
- The module is intended for built-in installation (IP20); ensure protection against contact and against the ingress of conductive particles.
- Incorrect wiring, insufficient cooling, or overloading can cause overheating and damage to the device.

